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The present invention relates to the use of 8-iso prostaglandin  $E_2$  (prosta-5,13dien-1-oic acid, 11,15-dihydroxy-9-oxo, (5Z, 8BETA, 11ALPHA, 13E,15S) ("8-isoPGE<sub>2</sub>") having the following Formula I:

or 8-isoPGE<sub>1</sub>, having the following Formula II:

and derivatives thereof in the treatment of disorders of increased intrsocular pressure, including but not limited to glaucoma.